

# Answer Key

## Chapter 1

### 1a

- 1 6
- 2 7
- 3 8
- 4 7
- 5 9
- 6 8
- 7 10
- 8 10
- 9 9

### 1b

- 1 6
- 2 7
- 3 9
- 4 4
- 5 5
- 6 11
- 7 9
- 8 8
- 9 8
- 10 adding the same number two times.

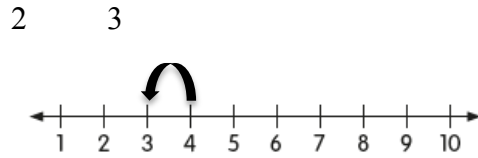
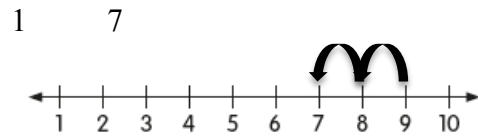
### 1c

- 1 3
- 2 9
- 3 2
- 4 6
- 5 5
- 6 7
- 7 10
- 8 Answers will vary
- 9 Answers will vary

### 1d

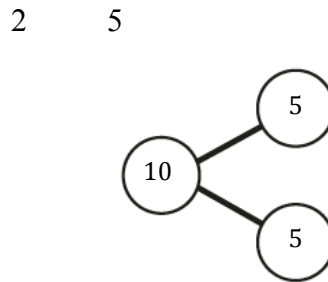
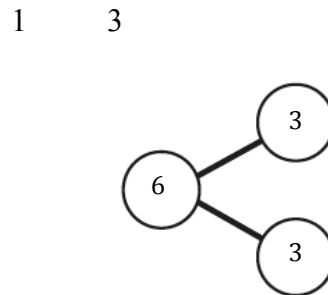
- 1 5; Doubles plus one
- 2 10; Making a ten
- 3 8; Doubles
- 4 7; Counting on
- 5 10; Counting on
- 6 12; Doubles
- 7 10; Counting on
- 8 11; Counting on
- 9 Answers will vary
- 10 Answers will vary

### 1e



- 3 5
- 4 9
- 5 4
- 6 8
- 7 3
- 8 5

### 1f



- 3 3; 2
- 4 1; 5
- 5 6
- 6 Answers will vary. Sample:  
 $8 - 4 = 4$  so  $9 - 4$  must be 5.

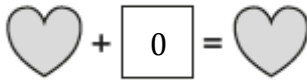
### 1g

- 1 6; Counting back
- 2 5; Doubles
- 3 5; Doubles plus one
- 4 6; Counting back
- 5 4; Doubles minus one
- 6 Answers will vary

## Answer Key

### 1h

- 1 6
- 2 7
- 3 10
- 4 9
- 5 0
- 6 0
- 7 2
- 8 0
- 9



Adding 0 to a number will get the same number.

### 1i

- 1 6
- 2 3
- 3 6
- 4 8
- 5 8
- 6 0
- 7 17
- 8 13
- 9 8
- 10 5
- 11 2
- 12 9
- 13 2
- 14 9
- 15 3

### 1j

- 1 5; 5; 10
- 2



$$\boxed{7} - \boxed{3} = \boxed{4}$$

### 1k

1

Doubles $4 + 4 = 8$ $3 + 3 = 6$ $2 + 2 = 4$	Using Zero $10 - 10 = 0$ $5 + 0 = 5$ $9 - 0 = 9$
Doubles Plus or Minus One $4 + 5 = 9$ $3 + 4 = 7$ $8 + 7 = 15$	Counting On or Back $4 + 2 = 6$ $5 + 1 = 6$ $5 - 1 = 4$

2 Answers will vary.

## Chapter 2

### 2a

- 1 15; 1; 5
- 2 2; 7;  
2; 12; 32
- 3 55
- 4 62
- 5 Answers will vary. Sample: the sum in the ones place is more than 9.

### 2b

- 1 Yes; I don't have enough ones to subtract 4 ones.
- 2 Yes; I don't have enough ones to subtract 5 ones.
- 3 No; I can subtract 2 ones from 5 ones.
- 4 63
- 5 19
- 6 5
- 7 I don't have enough ones to subtract in the ones place.

### 2c

- 1 93
- 2 5
- 3 78
- 4 59
- 5 19
- 6 2
- 7 62
- 8 11

## Answer Key

9 100

### 2d

2  $80 - 30 = 50$ ; 51

3 Answers will vary.  
Sample: 34; 53

### 2e

1 38

2 32

3 66

4 73

5 108

6 379

### 2f

1 394

2 297

3 198

4 298

5 179

6 595

### 2g

1 1; 669

2 50; 450

3 6; 538

4 1; 336

5 400; 767

6 600; 191

7 825

8 317

### 2h

1 61;  
Answers will vary.  
Sample:  $29 + 32 = 61$

2 60;  
Answers will vary.  
Sample:  $112 - 52 = 60$

### 2i

1 132

66

66

$$66 + 66 = 132$$

Each bus can seat 66 students.

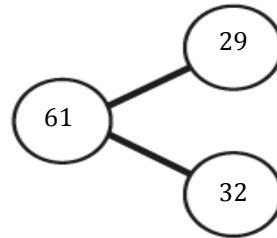
Two buses can seat  $(66 + 66 = 132)$  students.

2 48

## Chapter 3

### 3a

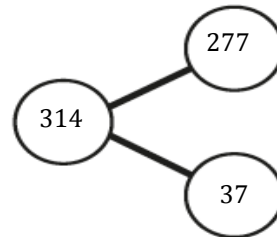
1 61 pounds;  
My work:  $29 + 32 = 61$  lbs  
My strategy:



2  $\$25 + \$36 = \$61$   
 $\$92 - \$61 = \$31$

### 3b

1 37 miles;  
My work: Answers will vary  
Sample:  $314 - 277 = 37$  miles  
My strategy:



2  $305 - 151 = 154$  feet

### 3c

1 1,140

2 17

3 304

4 98

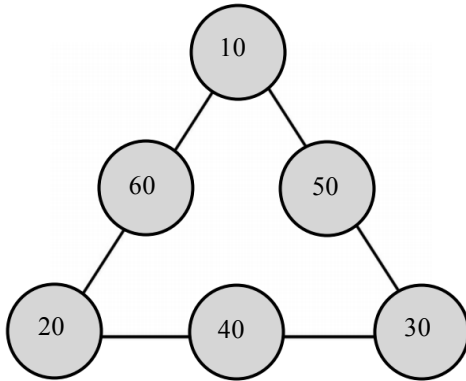
5 511

6 404

## Answer Key

**3d**

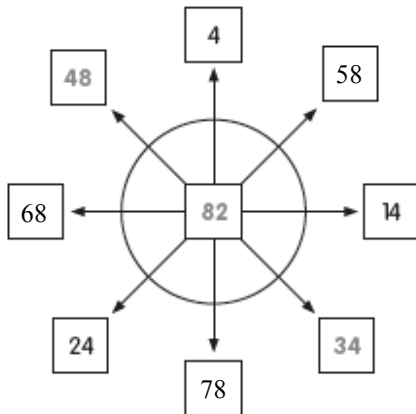
Triangle 1: Answers will vary.  
Sample:



Sum = 90

Triangle 2: Answers will vary  
Sum: Answers will vary

**3e**



Answers will vary. Sample: If one number in the sum goes up by ten then the other number has to go down by ten.

**3f**

- 1 a ball, a horn, and a flying disc
- 2 63; 1
- 3 Answers will vary. Sample: to find out how many tickets he had in all.

- 4 Answers will vary. Sample: to get the total of tickets needed to trade for the prizes.
- 5 Answers will vary. Sample: to subtract the toy total from the ticket total.
- 6 Answers will vary. Sample: he can't trade for both the horn and the bear without going over. He should trade for the toy with the higher tickets so that he has fewer tickets left over.

**3g**

Answers will vary

## Chapter 4

**4a**

- 1 4; 10; 14; 16
- 2 2
- 3 4
- 4 2
- 5 16
- 6 4
- 7 18
- 8 10
- 9 12

**4b**

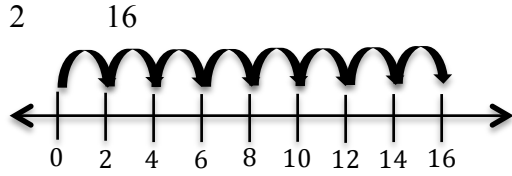
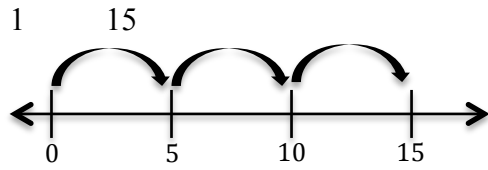
- 1 4; 2; 8
- 2 4
- 3 10
- 4 10; 4; 14

**4c**

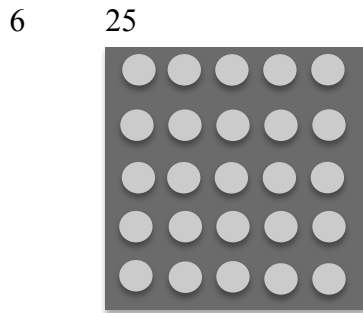
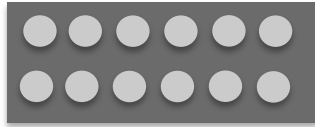
- 1 10; 25; 35; 40; 45
- 2 30; 50; 80; 100
- 3 20
- 4 10
- 5 40
- 6 30
- 7 30
- 8 70
- 9 100

## Answer Key

### 4d



- 3 40  
20; 30; 40
- 4 35  
5; 10; 15; 20; 25; 30; 35
- 5 12



### 4e

- 1  $5 \times 6 = 30$   
Michelle needs 30 stickers.
- 2  $8 \times 2 = 16$   
16 goldfish were at the pet store.
- 3 Answers will vary

### 4f

- 1 Answers will vary
- 2 Answers will vary

## Chapter 5

### 5a



- 3 9
- 4 7
- 5 8
- 6 100
- 7 99
- 8 705

### 5b

- 1 15
- 2 4; 12
- 3 14; 7; 21
- 4 6
- 5 18
- 6 30
- 7 9
- 8 24
- 9 27

### 5c

- 1 20
- 2 12
- 3 16; 32
- 4 4
- 5 12
- 6 36
- 7 Answers will vary

### 5d

- 1 5; 3; 15
- 2 6; 4; 24
- 3 Answers will vary. Sample:  
Bananas;  $7 \times 3$  or  
Pears;  $2 \times 4$

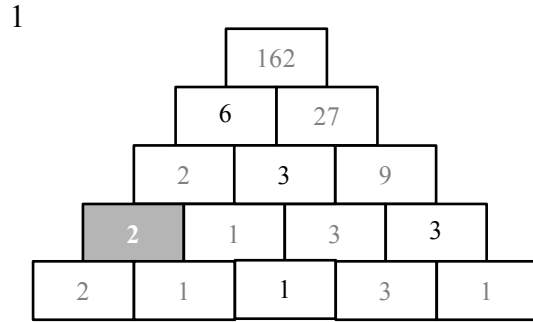
## Answer Key

**5e**

- 1 No, he should have added 8 and 4, not multiplied. Explanation will vary.
- 2 Answers will vary

## Chapter 6

**6a**



- 2 Answers will vary

**6b**

Answers will vary

**6c**

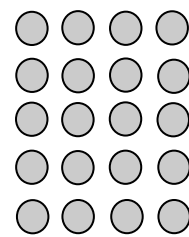
- 1 15
- 2 6
- 3 5
- 4 8
- 5 8
- 6 3
- 7 4
- 8 12
- 9 20
- 10 30
- 11 50
- 12 10
- 13 20
- 14 40
- 15 9
- 16 12
- 17 16
- 18 100

**6d**

- 1 6
  - 2 12; 12
- 

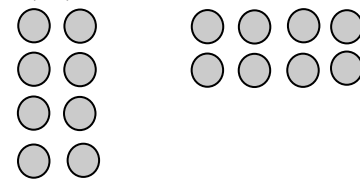
3

4; 5



4

4; 2; 4



5

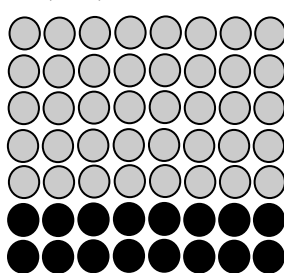
Answers will vary

**6e**

- 1 15; 3; 18
- 2 10; 2; 12
- 3 25; 5; 30
- 4 30; 6; 36
- 5 Answers will vary

**6f**

- 1 15; 6; 21
- 2 20; 8; 28
- 3 30; 12; 42
- 4 35; 14; 49
- 5 40; 16; 56



## Answer Key

### 6g

- 1 56; 56
- 2 32; 32; 32; 64; 64
- 3 14; 70; 14; 56; 56
- 4 60; 12; 60; 12; 48; 48
- 5 Answers will vary

### 6h

1	$9 \times 1$	9
	$9 \times 2$	18
	$9 \times 3$	27
	$9 \times 4$	36
	$9 \times 5$	45
	$9 \times 6$	54
	$9 \times 7$	63
	$9 \times 8$	72
	$9 \times 9$	81

- 2 Answers will vary
- 3 Answers will vary

### 6i

- 1 7
- 2 14
- 3 70
- 4 35
- 5 42
- 6 49
- 7 56
- 8 63
- 9 80
- 10 16
- 11 64
- 12 30
- 13 12
- 14 42
- 15 8
- 16 16
- 17 32

### 6j

- 1 48
- 2 63
- 3 42
- 4 56
- 5 64
- 6 72
- 7 54
- 8 36
- 9 49

- 10 81
- 11 48
- 12 54
- 13 Answers will vary  
Answers will vary

### 6k

- 1  $4 \times 5 = 20$ ; 20
- 2 Answers will vary

### 6l

- 1  $3 \times \$6 = \$18$   
Artwork: Answers will vary
- 2  $8 \times 6 = 48$  km  
Artwork: Answers will vary

### 6m

- 1 Yes
- 2 Answers will vary. Sample:  
 $2 \times 3 = 6$  and  $6 \times 4 = 24$   
If I multiply them using John's method, I would get  
 $2 \times 12 = 2 \times 3 \times 4$ .  
The answer is indeed 24.

## Chapter 7

### 7a

1	<u>2</u>	3	<u>4</u>	5	<u>6</u>	7	<u>8</u>	9	<del>X</del>
11	<u>12</u>	13	<u>14</u>	<u>15</u>	<u>16</u>	17	<u>18</u>	19	<del>X</del>

### 7b

- 1 16; 160
- 2 48; 480
- 3 42; 420
- 4 180
- 5 240
- 6 540
- 7  $6 \times 8 = 48$   
 $48 \times 10 = 480$   
 $480 \times 10 = 4,800$   
I would multiply by tens and then ten again.

### 7c

- 1 70
- 2 20
- 3 30

## Answer Key

- 4 80
- 5 50
- 6 100
- 7 140
- 8 240
- 9 420
- 10 180
- 11 480
- 12 720
- 13 300
- 14 600
- 15 700
- 16 4,200
- 17 4,800
- 18 5,400

### 7d

- 1 \$120
- 2 20 tickets
- 3  $8 + 9 = 17$  tickets  
 $17 \times \$10 = \$170$   
No, it will only be \$170.

### 7e

- 1 5
- 2 16
- 3 8
- 4 24
- 5 27
- 6 32
- 7 21
- 8 72
- 9 25
- 10 20
- 11 9
- 12 48
- 13 9
- 14 12
- 15 36

### 7f

- 1 6
- 2 12
- 3 7
- 4 16
- 5 45
- 6 27
- 7 8
- 8 35
- 9 56

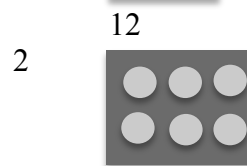
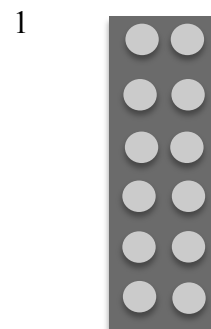
- 10 18
- 11 4
- 12 8
- 13 21
- 14 54
- 15 42
- 16 48

### 7g

- 1 150
- 2 Answers will vary

## Chapter 8

### 8a



- 3 6
- 4 6; 12; 2
- 5 6; 3; 2

### 8b

- 1 3; 6
- 2 3
- 3 3
- 4 Answers will vary

### 8c

- 1 54; 6; 9
- 2 35; 7; 5
- 3 Answers will vary

### 8d

- 1 10; 5; 10; 2
- 2 7; 7; 6; 6
- 3 45; 45; 5; 9; 45; 9; 5



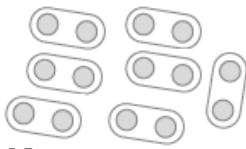
## Answer Key

**8e**

- 1 14
- 2 36
- 3 10
- 4 7
- 5 7
- 6 9
- 7 56
- 8 20
- 9 72
- 10 9
- 11 8
- 12 20
- 13 2
- 14 14
- 15 8

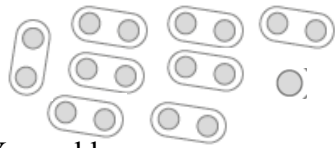
**8f**

1



No; even

2



Yes; odd

3

Answers will vary

**8g**

- 1 22 erasers each; 1 remaining
- 2 21 biscuits, none remaining
- 3 Answers will vary

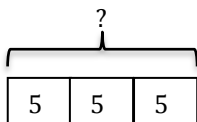
**8h**

Answers will vary  
 Answers will vary  
 Answers will vary  
 Answers will vary

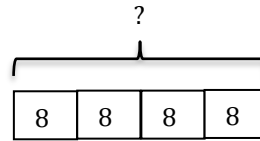
## Chapter 9

**9a**

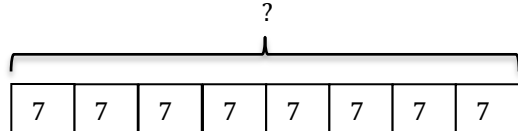
- 1 15



- 2 32



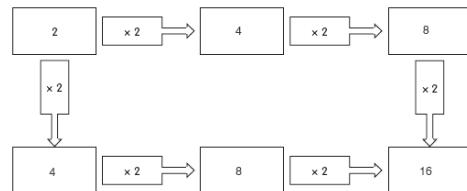
- 3 56



**9b**

- 1 48; 6; 8
- 2 81; 9; 9

**9c**



**9d**

- 1 27
- 2 20
- 3 6
- 4 4
- 5 3
- 6 3
- 7 48
- 8 72
- 9 2
- 10 10
- 11 6
- 12 3
- 13 9
- 14 80
- 15 36

**9e**

- 1  $24 \div 6 = 4$  bags;  
Answers will vary
- 2 48 cupcakes

## Answer Key

### 9f

- 1  $18 \times 2 = 36$  tons of asphalt;  
Answers will vary  
2 Answers will vary. Sample:  
 $18; 1 + 8 = 9; 2 \times 9 = 18$

### 9g

- 1 1  
2 72  
3 7  
4 8

### 9h

- 1 72 pieces  
2 7 bags  
3 18 pieces;  
 $72 - 54 = 18$   
Margo will have 18 building  
pieces left.

### 9i

- Answers will vary.  
Sample: Mark had 3 bags of marbles.  
He had 27 marbles in all. How many  
marbles did each bag have?  
9

## Chapter 10

### 10a

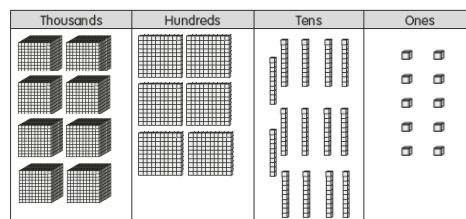
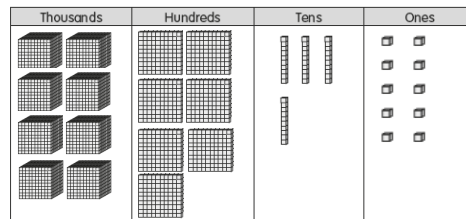
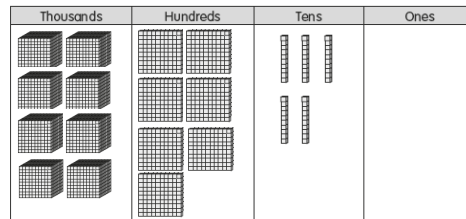
- 1 11  
2 32  
3 18  
4 9  
5 64  
6 5  
7 9  
8 63  
9 13  
10 6  
11 14  
12 24  
13 5  
14 36  
15 11

### 10b

- 1  $\times$   
2  $+$   
3  $-$   
4  $\times$   
5  $\div$   
6  $\times$   
7  $\div$   
8  $-$   
9  $\times$   
10  $\times; \times$   
11  $\times; +$   
12  $\div; +$   
13  $\div; +$

### 10c

Answers will vary. Sample:



### 10d

- 1 4  
2 9; 0  
3 0; 5  
4 0; 0; 0  
5 0; 0;  
5; 2; 1  
6 4;  
2

## Answer Key

### 10e

1  $\$5.00 + \$2.15 = \$7.15$   
 $\$7.15 \times 2 = \$14.30$

2  $\$14.30$   
 $\$24.30$   
 $\$44.30$

2  $\begin{array}{r} 57 \\ + 120 \\ \hline 177 \end{array}$

3  $\begin{array}{r} 132 \\ + 245 \\ \hline 377 \end{array}$

### 10f

1 30; 60; 600; 3,000  
 15; 30; 300; 1,500  
 45; 90; 900; 4,500

2 Answers will vary  
 Answers will vary

4  $\begin{array}{r} 562 \\ + 18 \\ \hline 580 \end{array}$

5  $\begin{array}{r} 343 \\ + 157 \\ \hline 500 \end{array}$

### 10g

1 8; 8; 8; 56; 56

2 5; 5; 5; 5; 5

6  $\begin{array}{r} 803 \\ + 107 \\ \hline 910 \end{array}$

### 10h

1 3; 2; 1

2 77.90

3 Answers will vary. Sample:  
 One group of all the 3 plants is  
 $\$12.00 + \$14.20 + \$13.50 =$   
 $\$39.70$ . We have  $\$38.30$  left to  
 spend. So, 1 more cucumber  
 plant + 2 more tomato plants  
 cost  $\$38.20$ . There is only  
 $\$0.10$  left.

### 11c

1 300  
 2 3,000  
 3 6,000  
 4 200  
 5 2,000  
 6 8,000  
 7 400  
 8 4,000  
 9 8,000  
 10 25,000  
 11 63,000  
 12 10,000

## Chapter 11

### 11a

1 400

2 100

3 4

4 5

5 12

6 25

7 400

8 900

9 600

### 11d

1 1,000

2 1,000

3 1,000

4 3,000

5 2,000

6 2,000

7 4,000

8 2,000

9 2,000

10 6,000

11 9,000

12 8,000

### 11b

1  $\begin{array}{r} 35 \\ + 12 \\ \hline 47 \end{array}$

## Answer Key

### 11e

- |   |                   |  |    |
|---|-------------------|--|----|
| 1 | $8 \times 8$      |  | 49 |
| 2 | $9 \times 9$      |  | 36 |
| 3 | $4 \times 4$      |  | 64 |
| 4 | $5 \times 5$      |  | 25 |
| 5 | $7 \times 7$      |  | 81 |
| 6 | $6 \times 6$      |  | 16 |
| 7 | Answers will vary |  |    |

### 11f

- 1 7
- 2 9
- 3 2
- 4 7
- 5 3
- 6 2
- 7 6
- 8 8
- 9 5
- 10 5
- 11 9
- 12 3

### 11g

- 1 100
- 2 91,000
- 3  $3,000 \text{ grams} = 3 \text{ kg}$   
 $60 \text{ kg} \div 3 \text{ kg} = 20$   
 or  
 $6 \text{ kg} = 60,000 \text{ g}$   
 $60,000 \div 3,000 = 20$   
 Roxy eats 20 buckets  
 of carrots.

## Chapter 12

### 12a

- 1 7
- 2 24
- 3 14
- 4 10
- 5 15
- 6 8

- 7 27
- 8 9
- 9 13
- 10 4
- 11 12
- 12 1
- 13 8
- 14 20
- 15 5

### 12b

- 1 13; 13; 13; 8; 5; 13; 5; 8
- 2 27; 27; 27; 3; 27; 9
- 3  $\div$ ;  $\div$ ;  $\times$ ;  $\times$
- 4 +; +; -; -
- 5 Answers will vary. Sample:  
 Any double fact of  
 addition/subtraction or  
 multiplication/division  
 $5 + 5 = 10$ ;  $10 - 5 = 5$

### 12c

4	$\times$	3	$+$	5	=	17
-		$\times$		$\times$		
2	$\times$	3	-	1	=	5
+		$+$		$\times$		
7	$\times$	8	-	1	=	55
=		=		=		
9		17		5		

### 12d

- 1
 

4	$\div$	2	2
+		$+$	
1	$\times$	3	3
5		5	

## Answer Key

2 Answers will vary

**12e**

8; 10

6; 14

1 Instead of multiplying or dividing, you first add or subtract.

3 No, not all are of the same operation.

Sample:  $3 + 2 + 1 = 3 + (2 + 1)$

## Chapter 13

**13a**

1 27

36




63

2 36 more apples

**13b**

1 Answers will vary. Sample: 7; all numbers are divisible by 7.

2 **Number of Fish in Each Tank**

Room 102 – Tank 1	
Room 103 – Tank 2	
Room 104 – Tank 3	

**13c**

1 6; 8; 14; 16

2 6; 12; 15; 21; 24; 27

3 10; 15; 20; 25; 30; 35; 40; 45

4 300; 400; 500; 600; 700; 800; 900

5 8; 16; 24; 32; 48; 56; 64; 80

**13d**

1 10

2 27

3 2

4 2

5 48

6 5

7 9

8 6

9 6

10 18

11 9

12 49

13 32

14 21

15 9

**13e**

1 9

8; 8; 9

9; 8; 8; 9

2 3

3; 3; 7

3; 3; 7

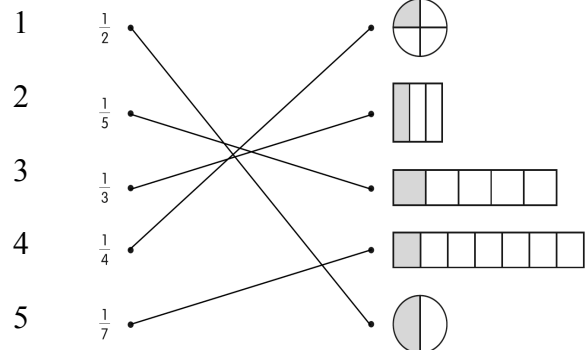
**13f**

1 Answers will vary

2 Answers will vary

## Chapter 14

**14a**



**14b**



## Answer Key



7 Answers will vary

### 14c

2  $\frac{1}{3}, \frac{3}{9}, \frac{4}{12}, \frac{2}{6}$

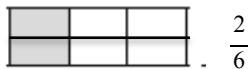
3  $\frac{2}{3}, \frac{4}{6}, \frac{6}{9}$

4  $\frac{3}{15}, \frac{1}{5}, \frac{2}{10}$

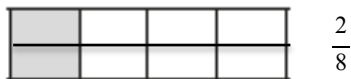
5  $\frac{2}{8}, \frac{3}{12}, \frac{1}{4}$

### 14d

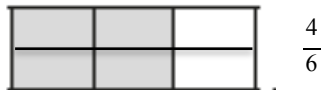
2  $\frac{1}{3}$



3  $\frac{1}{4}$



4  $\frac{2}{3}$



### 14e

- 1 Answers will vary
- 2 Answers will vary
- 3 Answers will vary
- 4 Answers will vary
- 5 Answers will vary
- 6 Answers will vary
- 7 Answers will vary
- 8 Answers will vary
- 9 Answers will vary
- 10 Answers will vary

### 14f

1  $\frac{3}{4}$

2  $\frac{1}{4}$

3  $\frac{2}{5}$

4 Ariel takes 9 marbles. She leaves 6 marbles for her brother.

### 14g

1 Answers will vary. Sample: Meg paints her house. She paints  $\frac{3}{4}$  of the house in the morning. How much does she still need to paint?

2  $1 - \frac{3}{4} = \frac{1}{4}$

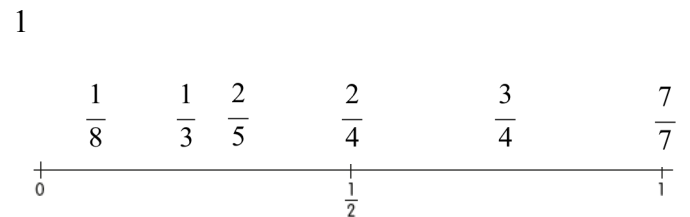
3 Answers will vary

### 14h

1  $>$ ; Answers will vary  
 2  $<$ ; Answers will vary  
 3  $=$ ; Answers will vary  
 4 Answers will vary. Sample: In order to compare fractions, you should get equal parts. Sample:



### 14i



2 Answers will vary. Sample:  $\frac{2}{4}$  because it equals  $\frac{1}{2}$ . Then I compared others with  $\frac{1}{2}$ .

## Answer Key

### 14j

1  $\frac{1}{2}$  have stars,  $\frac{1}{2}$  have stripes

2  $\frac{4}{7}$  are girls,  $\frac{3}{7}$  are boys

3 Answers will vary. Sample:  
What fraction of the animals are dogs?

$\frac{3}{5}$  are dogs.

### 14k

1 No



3 Answers will vary.  
Sample:

Step 1: Make the fraction have the same number of parts.

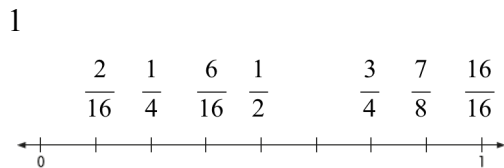
$$\frac{1}{2} = \frac{2}{4}$$

Step 2: Add the new fractions together.

$$\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$$

## Chapter 15

### 15a



2 Answers will vary. Sample:  
I made them all into sixteenths.

### 15b

- 1 8  
2 16  
3 32  
4 24  
5 12  
6 6

7 16

8 32

9 64

10 40

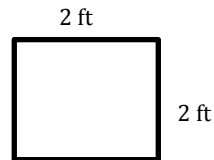
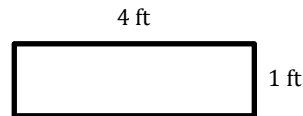
11 20

12 10

13 Answers will vary. Sample:  
I could double the smaller fact or reduce the bigger fact by half.

### 15c

1 Either 4 ft × 1 ft or 2 ft × 2 ft.



2 Answers will vary. Sample:  
Area of the poster board  
= Length × Breadth  
= 4 ft × 2 ft  
= 48" × 24"  
 $\frac{1}{4}$  of the poster board  
= 48" × 6" or 12" × 24"

### 15d

1  $2\frac{1}{2}$

4

4

4

6

1

2

1

4

2 96 cookies

### 15e

1 3

2 10

3 18

4 28

5 40

## Answer Key

6	54
7	72
8	64
9	42
10	30
11	20
12	12
13	6
14	2
15	0

### 15f

1	9
2	6
3	7
4	8
5	6
6	6
7	3
8	3
9	5
10	4
11	4
12	4
13	6
14	9
15	10
16	2

### 15g

1	11
2	18
3	2
4	3
5	7
6	5
7	40
8	4
9	14
10	8
11	14
12	7
13	8
14	16
15	1

### 15h

- 1 She can wrap 6 gifts with a roll of ribbon.  
Each roll of ribbon =  $3 \times 12 = 36$  inches  
 $36 \div 6 = 6$
- 2 1 gift = 6 inches of ribbon  
2 gifts = 12 inches or 1 foot of ribbon  
6 gifts = 3 feet or 1 roll of ribbon  
3 rolls of ribbon =  $6 \times 3 = 18$  gifts

### 15i

6  
1,000  
20  
2

### 15j

- 1 4 cups of water
- 2 72
- 3 10 balloons  
Each gallon fills 2 balloons so 5 gallons fill 10 balloons.

### 15k

- 1 Answers will vary. Samples:  
water  
flour  
juice
- 2 Answers will vary. Samples:  
length of room  
distance in a race  
furniture
- 3 Answers will vary. Samples:  
elephant  
butter  
child
- 4 Capacity; Length; Weight
- 5 Answers will vary. Sample:  
Cooking
- 6 Answers will vary. Sample:  
Distance between 2 places




# Answer Key


## Chapter 16


### 16a


- 1 10; 25; 35; 40; 45
- 2 30; 40; 50; 90; 100
- 3 25; 30; 35
- 4 40; 30; 20; 10
- 5 50
- 6 60
- 7 45
- 8 30


### 16b


1  4:25

2  5:00

3  4:30

4  5:45

5  4:10

6  5:25

### 16c

- 1 30
- 2 50
- 3 60
- 4 60
- 5 80
- 6 60
- 7

20	10	30
20	15	25
20	35	5

### 16d

- 1 1; 0
- 2 1; 8
- 3 1; 24
- 4 1; 30
- 5 75
- 6 105

### 16e

- 1 3:15  
3:00  
3:45
- 2 1:50  
1:40  
2:00
- 3 2:20  
1:55  
4:00

### 16f

- 1 10
- 2 3
- 3 9
- 4 60
- 5 7
- 6 9
- 7 8
- 8 7
- 9 8
- 10 6
- 11 4
- 12 8

### 16g

- 1 40°F
- 2 45°F
- 3 35°F
- 4 75°F
- 5 85°F
- 6 55°F

### 16h

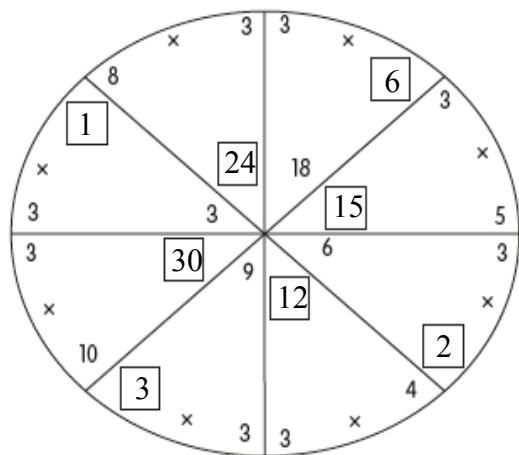
- 1 6:30 p.m.
- 2 8:45 p.m.
- 3  $26 \times 8 = 208$  minutes which is 3 hours and 28 minutes;  
3; 28

## Answer Key

### 16i

- 1  $45^{\circ}\text{F} - 32^{\circ}\text{F} = 13^{\circ}\text{F}$
- 2  $72^{\circ}\text{F} - 29^{\circ}\text{F} = 43^{\circ}\text{F}$
- 3 Wyoming because it is colder than  $32^{\circ}\text{F}$ .

### 16j



### 16k

- 1 July;  $84^{\circ}\text{F}$
- 2 January;  $38^{\circ}\text{F}$
- 3  $41^{\circ}\text{F}$
- 4  $10^{\circ}\text{F}$
- 5 Answers will vary  
Answers will vary

## Chapter 17

### 17a

- 1  $90^{\circ}$
- 2  $90^{\circ}$
- 3 Answers will vary  
Answers will vary
- 4 Answers will vary  
Answers will vary

### 17b

- 1  $180^{\circ}$
- 2  $180^{\circ}$
- 3 Answers will vary  
Answers will vary
- 4 Answers will vary  
Answers will vary
- 5 Answers will vary

### 17c

- 1  $360^{\circ}$
- 2  $90^{\circ}$ ;  $90^{\circ}$ ;  $360^{\circ}$
- 3  $60^{\circ}$ ;  $60^{\circ}$ ;  $180^{\circ}$
- 4 Answers will vary

### 17d

- 1 Triangle:  $180^{\circ}$   
Square: 4;  $360^{\circ}$   
Rectangle: 4;  $90^{\circ}$ ;  $360^{\circ}$
- 2  $105^{\circ} + 105^{\circ} + 75^{\circ} + 75^{\circ} = 360^{\circ}$

### 17e

- 1  $\times$  1: 1; 2; 3; 4; 5; 6; 9  
 $\times$  2: 2; 4; 6; 8; 14; 16; 18  
 $\times$  3: 6; 15; 18; 21  
 $\times$  4: 12; 16; 20; 24; 32; 36  
 $\times$  5: 5; 10; 15; 20; 25; 30; 35;  
40; 45
- 2 Answers will vary

### 17f

- 1  $\times$  6: 12; 24; 30; 48; 54  
 $\times$  7: 7; 21; 28; 42; 49; 56; 63  
 $\times$  8: 8; 16; 24; 32; 40; 48; 56  
 $\times$  9: 9; 27; 36; 45; 54; 63  
 $\times$  10: 20; 30; 60; 70; 80; 90
- 2 Answers will vary  
Answers will vary  
Answers will vary  
Answers will vary

### 17g

- 2 A; B; D
- 3 C; C; D
- 4 Answers will vary

## Chapter 18

### 18a

- 1 4  
20  
4; 20
- 2 5  
30  
5; 30
- 3 4  
36  
4; 36

## Answer Key

### 18b

- 3; 3; 21  
Square; 4; 4; 4; 28  
Pentagon; 5; 5; 35  
Hexagon; 6; 6; 42  
7; 7; 7; 49  
Octagon; 8; 8; 8

### 18c

- 1 198  
2 9  
3 198  
4 3,087  
5 Answers will vary

### 18d

- 1 45 square tiles  
2 90 triangle tiles

### 18e

- 1 2  
2 9  
3 3  
4 48  
5 100

### 18f

Answers will vary. Samples:

- 2 48; 1  
3 8; 6  
4 3; 4  
5 2; 24  
6 12; 4

### 18g

- 1 36; 28  
2 18;  $6 \times 3$ ; 18  
3 8; Answers will vary

## Chapter 19

### 19a

- 1 6; 6; 24  
2 7; 7; 7; 7; 28  
3 32; 4; 32  
4 18; 9; 2; 18  
5 42; 6; 7; 42

### 19b

- 1 24  
2 2; 3; 6  
3 12  
4 48


### 19c

- 1 36  
2 7; 7; 49  
3 8; 8; 64  
4 9; 9; 81

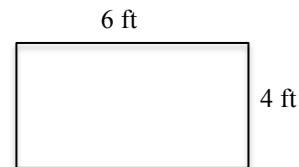
### 19d

- $5 \times 5 = 25 \text{ cm}^2$   
6 cm; 36  
 $7 \times 7 = 49 \text{ cm}^2$ ; 49  
Yes  
Answers will vary

### 19e

- 1 

- 2 15  
a)



- b)  $6 \times 4 = 24 \text{ ft}^2$   
c) No; The area increased by  $9 \text{ ft}^2$ .

### 19f

- 1 12;  
4;  
12; 4; 16  
2 4 squares  $\times 9 = 36$   
1 rectangle  $\times 21 = 21$   
Total:  $36 + 21 = 57$

### 19g

- 1 16  
2 8; 8; 28  
3 3; 3; 24

## Answer Key

### 19h

- 1 12
- 2 20

### 19i

- 1 4
- 2 6
- 3 28
- 4 0
- 5 54
- 6 18
- 7 4
- 8 56
- 9 50
- 10 4
- 11 9
- 12 3
- 13 4
- 14 8
- 15 6

### 19j

- 1 48; 28
- 2 Answers will vary
- 3 Answers will vary

### In a Minute I Can Do! Repeated Practice 1

- 1 3
- 2 5
- 3 6
- 4 10
- 5 7
- 6 3
- 7 6
- 8 4
- 9 8
- 10 3
- 11 9
- 12 9
- 13 6
- 14 2
- 15 10
- 16 7
- 17 2
- 18 10
- 19 10
- 20 6

- 21 3
- 22 1
- 23 10
- 24 5
- 25 1
- 26 7
- 27 5
- 28 8
- 29 3
- 30 8

### In a Minute I Can Do! Repeated Practice 2

- 1 11
- 2 12
- 3 13
- 4 15
- 5 17
- 6 12
- 7 14
- 8 12
- 9 14
- 10 13
- 11 11
- 12 17
- 13 15
- 14 16
- 15 20
- 16 18
- 17 12
- 18 20
- 19 16
- 20 16
- 21 13
- 22 16
- 23 15
- 24 20
- 25 11
- 26 20
- 27 14
- 28 18
- 29 12
- 30 18

### In a Minute I Can Do! Repeated Practice 3

- 1 14
- 2 12

## Answer Key

3	12
4	12
5	11
6	8
7	13
8	9
9	10
10	17
11	8
12	14
13	9
14	16
15	20
16	15
17	9
18	20
19	20
20	16
21	13
22	11
23	15
24	20
25	10
26	12
27	14
28	18
29	10
30	18

### In a Minute I Can Do! Repeated Practice 4

1	2
2	5
3	10
4	20
5	30
6	18
7	40
8	16
9	50
10	4
11	45
12	6
13	60
14	70
15	25
16	12
17	10
18	20

19	15
20	80
21	8
22	90
23	10
24	20
25	30
26	14
27	40
28	50
29	35
30	100

### In a Minute I Can Do! Repeated Practice 5

1	2
2	4
3	9
4	8
5	24
6	9
7	6
8	6
9	27
10	12
11	3
12	16
13	7
14	3
15	21
16	20
17	10
18	24
19	18
20	28
21	30
22	8
23	32
24	40
25	15
26	36
27	4
28	1
29	5
30	12

## Answer Key

### In a Minute I Can Do! Repeated Practice 6

1	9
2	40
3	27
4	28
5	12
6	48
7	56
8	18
9	35
10	24
11	18
12	30
13	63
14	32
15	49
16	24
17	63
18	36
19	36
20	42
21	64
22	21
23	8
24	56
25	81
26	42
27	45
28	48
29	14
30	16

### In a Minute I Can Do! Repeated Practice 7

1	1
2	18
3	15
4	28
5	4
6	50
7	54
8	21
9	64
10	32
11	18
12	5
13	8

14	25
15	12
16	24
17	12
18	40
19	16
20	42
21	9
22	70
23	49
24	8
25	81
26	36
27	10
28	10
29	14
30	36

### In a Minute I Can Do! Repeated Practice 8

1	36
2	8
3	30
4	6
5	54
6	2
7	60
8	3
9	24
10	24
11	20
12	35
13	16
14	15
15	60
16	56
17	30
18	72
19	9
20	40
21	18
22	48
23	14
24	72
25	90
26	32
27	80
28	35
29	6

## Answer Key

30 7

### In a Minute I Can Do! Repeated Practice 9

1 1  
2 4  
3 4  
4 9  
5 2  
6 5  
7 9  
8 8  
9 2  
10 4  
11 9  
12 7  
13 9  
14 10  
15 5  
16 7  
17 1  
18 9  
19 2  
20 1  
21 5  
22 8  
23 9  
24 6  
25 1  
26 3  
27 2  
28 8  
29 9  
30 10

### In a Minute I Can Do! Repeated Practice 10

1 2  
2 6  
3 10  
4 9  
5 9  
6 5  
7 2  
8 3  
9 6  
10 8  
11 8

12 2  
13 3  
14 3  
15 4  
16 6  
17 7  
18 7  
19 5  
20 8  
21 1  
22 2  
23 5  
24 10  
25 8  
26 5  
27 3  
28 5  
29 8  
30 6

### In a Minute I Can Do! Repeated Practice 11

1 28  
2 63  
3 20  
4 24  
5 36  
6 30  
7 10  
8 2  
9 18  
10 27  
11 48  
12 50  
13 12  
14 30  
15 6  
16 7  
17 28  
18 40  
19 42  
20 40  
21 36  
22 18  
23 16  
24 64  
25 63  
26 80  
27 40

## Answer Key

28 15  
29 4  
30 12

### In a Minute I Can Do! Repeated Practice 12

1 5  
2 3  
3 3  
4 6  
5 7  
6 3  
7 3  
8 1  
9 2  
10 4  
11 6  
12 4  
13 4  
14 7  
15 2  
16 7  
17 7  
18 7  
19 5  
20 3  
21 2  
22 8  
23 7  
24 10  
25 10  
26 1  
27 9  
28 6  
29 4  
30 10

### In a Minute I Can Do! Repeated Practice 13

1 7  
2 3  
3 4  
4 2  
5 3  
6 5  
7 36  
8 5  
9 12

10 9  
11 50  
12 9  
13 21  
14 9  
15 2  
16 2  
17 6  
18 56  
19 9  
20 36  
21 8  
22 36  
23 3  
24 20  
25 8  
26 21  
27 3  
28 9  
29 3  
30 10

### In a Minute I Can Do! Repeated Practice 14

1 3  
2 3  
3 7  
4 5  
5 2  
6 15  
7 8  
8 10  
9 10  
10 27  
11 36  
12 5  
13 7  
14 48  
15 72  
16 7  
17 2  
18 5  
19 6  
20 24  
21 35  
22 4  
23 5  
24 21  
25 8



## Answer Key

26	6
27	60
28	6
29	56
30	5

### In a Minute I Can Do! Repeated Practice 15

1	8
2	7
3	15
4	8
5	5
6	9
7	5
8	18
9	7
10	12
11	1
12	35
13	7
14	50
15	7
16	4
17	24
18	54
19	49
20	5
21	24
22	72
23	7
24	10
25	1
26	54
27	20
28	6
29	10
30	70

### In a Minute I Can Do! Repeated Practice 16

1	2
2	12
3	5
4	30
5	10
6	10
7	14

8	8
9	40
10	35
11	10
12	18
13	20
14	20
15	40
16	16
17	50
18	80
19	60
20	15
21	45
22	30
23	6
24	70
25	100
26	90
27	20
28	25
29	4
30	50

### In a Minute I Can Do! Repeated Practice 17

1	12
2	14
3	64
4	42
5	32
6	28
7	27
8	21
9	36
10	48
11	56
12	36
13	81
14	30
15	48
16	42
17	49
18	72
19	56
20	54
21	54
22	24
23	18

## Answer Key

24	40	6	10
25	24	7	40
26	45	8	4
27	16	9	20
28	72	10	18
29	63	11	6
30	63	12	16

### In a Minute I Can Do! Repeated Practice 18

1	3	13	72
2	4	14	12
3	24	15	54
4	49	16	6
5	100	17	28
6	9	18	56
7	3	19	60
8	8	20	9
9	36	21	35
10	8	22	12
11	48	23	30
12	80	24	90
13	64	25	42
14	16	26	4
15	8	27	80
16	40	28	21
17	70	29	48
18	81	30	6
19	28		
20	72		
21	12		
22	40		
23	18		
24	54		
25	63		
26	5		
27	15		
28	25		
29	35		
30	27		

### In a Minute I Can Do! Repeated Practice 19

1	10
2	24
3	10
4	18
5	63